


PRODUCTION OF HIGH-PURITY ALKYL ESTER OF NITROUS ACID**Publication number:** JP4202160 (A)**Also published as:****Publication date:** 1992-07-22 JP2599031 (B2)**Inventor(s):** NISHIHARA KEIGO; TANAKA HIDEJI; KODAMA KUNIOKI**Applicant(s):** UBE INDUSTRIES**Classification:****- international:** C07C201/04; C07C203/00; C07C201/00; C07C203/00; (IPC1-7): C07C201/04; C07C203/00**- European:****Application number:** JP19900330106 19901130**Priority number(s):** JP19900330106 19901130**Abstract of JP 4202160 (A)**

PURPOSE: To suppress formation of impurities and to obtain the title high-purity compound simply, inexpensively and in high yield by reacting a nitrite with an aliphatic monohydric alcohol while adjusting pH of the reaction solution with nitric acid instead of sulfuric acid. **CONSTITUTION:** 4-6C aliphatic monofunctional alcohol is blended with an aqueous solution of an alkali metal salt (preferably sodium salt) of nitrous acid and maintained at 0-30 deg.C, preferably 0-15 deg.C while stirring. An aqueous solution of nitric acid is dripped to the mixed solution until the pH value of the water phase of the prepared reaction solution becomes 1-3. After the water phase of the prepared reaction solution is separated and removed, the organic phase is washed with water until the washed solution becomes pH ≥ 4 .

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